

Bachelor of Advanced Science

MAJOR **Marine Biology**

SECOND MAJOR **Aquaculture Science and Technology**

This study plan should be used as a general guide for your course. We recommend you consult with your [CSE Course/Major Advisor](#) and particularly if your intended enrolment varies from this plan.

The information in the study plan is current at the time of creation and may be subject to future change. If you would prefer a part-time study plan, please adjust the below study planner; reviewing subject prerequisites to ensure you are on track for course completion.

Useful study planning/enrolment resources:

To search for information on subjects: [Subject Search](#)

To register for your classes: [Class Registration](#)

For important dates check: [Academic Calendars](#)

Further enrolment resources: [Enrolment Resources](#)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1	Course SC1101:03 Science Technology and Truth	Course SC1109:03 Modelling Natural Systems-Advanced ^ <i>PREREQ: MA1000 or MA1009</i>
	Course MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	Course MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Major BS1007:03 Introduction to Biodiversity	Major BS1001:03 Introduction to Biological Processes
	Second Major Select a BREADTH SUBJECT-List 1	Second Major Select a BREADTH SUBJECT-List 1

Year 2	STUDY PERIOD 1		STUDY PERIOD 2	
	Course SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of Level 1 subjects</i>		Course CH1020:03 Preparatory Chemistry or Elective (only if already satisfied via previous study)	
	Major BS2470:03 Evolution <i>PREREQ: BZ1001 or BS1001 or BZ1005</i>		Major BS2460:03 Fundamentals of Ecology <i>PREREQ: 6 credit points of Level 1 or 2 BZ/BS or EV subjects</i>	
	Major MB2050:03 Functional Biology or Marine Organisms <i>PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006</i>		Second Major Select 3 credit points of any Level 1, 2, 3 or 5 subject	
	Second Major AQ2001:03 Introduction to Aquaculture <i>PREREQ: At least 12 credit points of Level 1 science BS, BZ, CH, EA, EV, MA, MB, PH or SC subjects</i>			
	STUDY PERIOD 3 (Jan-Feb)		STUDY PERIOD 7 (Jun-Jul)	
		Second Major AQ3003:03 Aquaculture: Propagation - SP7 <i>PREREQ: AQ2001 AND at least 12 credit points of Level 2 science AQ, BC, BS, BZ, CH, EA, EV, MA, MB, PH, or SC subjects.</i> or AQ3004:03 Aquaculture: Stock Improvement - SP10 <i>PREREQ: At least 12 credit points of Level 2 AQ, BC, BZ, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of Level 2 aquaculture subjects.</i>		

Year 3	STUDY PERIOD 1		STUDY PERIOD 2		
	Major MB3050:03 Biological Oceanography <i>PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001)</i>		Course Select an ADVANCED SKILL subject-List 1		
	Major MB3210:03 Life History and Evolution of Reef Corals <i>PREREQ: SC2202 or SC2209 or BS2001 or BZ2001 or AG2001 and at least a result of CREDIT in MB2060 or BS2460</i> OR MB3160:03 Evolution and Ecology of Reef Fishes <i>PREREQ: MB2050 and (MB2060 or BS2460) and a minimum mark of CREDIT in BS2470 or MB2070</i>		Course Select Availability in Study Period 1, 2, 3, 7 or 11 SC3003:03 Science Research Internship <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC level 2 subjects</i> OR SC3008:03 Professional Placement <i>PREREQ: Students must have successfully completed 12 credit points of second year subjects.</i> <i>Enrolment is restricted to students with an approved placement</i>		
	Second Major MI2031:03 Diagnosis of Bacterial Diseases in Aquaculture		Major MB3190:03 Coral Reef Ecology <i>PREREQ: Credit or better in MB2060 or BS2460</i>		
	Second Major AQ3002:03 Aquaculture: Feeds and Nutrition <i>PREREQ: At least 12 credit points of Level 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of Level 2 aquaculture subjects.</i>		OR MB3270:03 Wetland and Estuarine Ecosystems <i>PREREQ: BS1007 or BZ1007 and (MB2050 or BS2460) and (SC2202 or SC2209 or BS2001 or BZ2001)</i>		
	STUDY PERIOD 3 (Jan-Feb)		STUDY PERIOD 7 (Jun-Jul)		STUDY PERIOD 10 (Nov-Jan)
Second Major AQ3015:03 Sustainable Aquaculture <i>PREREQ: 12 credit points of Level 2 subjects</i>					

BREADTH SUBJECTS - LIST 1	
STUDY PERIOD 1	STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology	BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity	CH1002:03 Chemistry: Principles and Applications
CH1001:03 Chemistry: A Central Science	EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques
EV1005:03 Environmental Processes and Global Change	MA1580:03 Foundations of Data Science
MA1000:03 Mathematical Foundation	PH1007:03 Advanced Stream Physics 2
PH1005:03 Advanced Stream Physics 1	
TRIMESTER 1	TRIMESTER 3
CP1401:03 Problem Solving and Programming I	CP1404:03 Programming II

ADVANCED SKILL SUBJECTS - LIST 1	
STUDY PERIOD 1	STUDY PERIOD 2
BS5260:03 Modelling Ecological Dynamics	BC5203:03 Advanced Bioinformatics
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	CH5002:03 Research Skills and Communication in Chemistry (Advanced) <i>PREREQ: Satisfactory completion of 9 credit points of Level 2, 3 or 5 CH subjects</i>
[^] EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies
[^] PH5014:03 Research Skills and Communication in Physics (Advanced)	

[^]Note: EA5409 and PH5014 are not offered in 2023

COURSE NOTES

A maximum of 30 credit points may be taken at Level 1.

A minimum of 18 credit points of science subjects must be taken at Level 3 or higher.

ADDITIONAL INFORMATION

[2023 Bachelor of Advanced Science Handbook](#)

[Marine Biology Major](#)

[Aquaculture Science and Technology Major](#)